

FIG.1

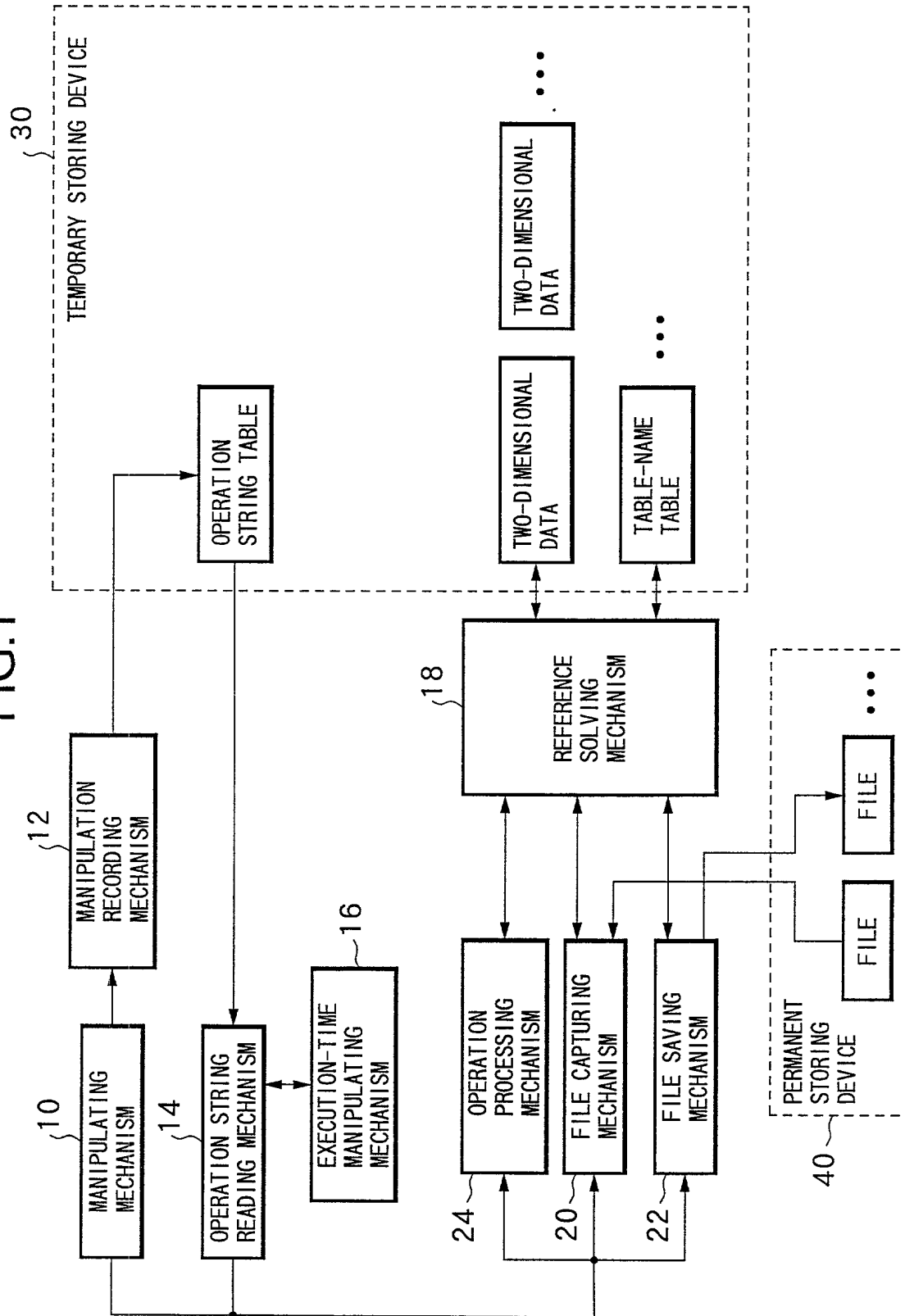


FIG.2

FILE CAPTURING FILE SAVING
SIMPLE HORIZONTAL COMBINATION KEYED HORIZONTAL COMBINATION SIMPLE VERTICAL COMBINATION KEYED VERTICAL COMBINATION SIMPLE DIFFERENCE KEYED DIFFERENCE SIMPLE TOTALIZATION KEYED TOTALIZATION NUMBER-DESIGNATED ROW EXTRACTION VALUE-DESIGNATED ROW EXTRACTION CONDITION-DESIGNATED ROW EXTRACTION DATA-DESIGNATED ROW EXTRACTION SIMPLE HORIZONTAL-VERTICAL EXCHANGE COLUMN-TO-ROW CONVERSION ROW-TO-COLUMN CONVERSION CLASSIFICATION SIMPLE VALUE FILLING VACANT DATA-VALUE FILLING SAME-VALUE DEGENERATION SAME-VALUE EXPANSION REPETITIVE DEGENERATION REPETITIVE EXPANSION
EXECUTION

FIG.3

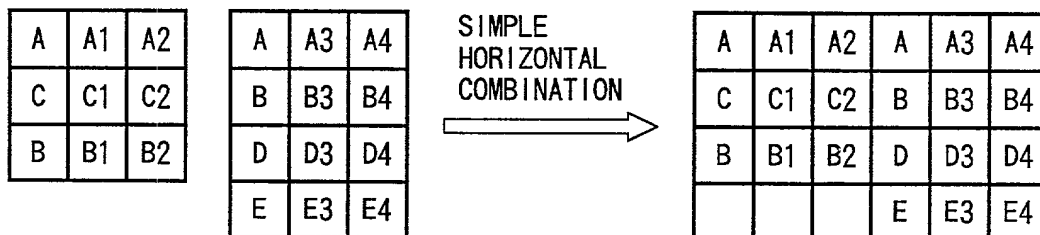


FIG.4

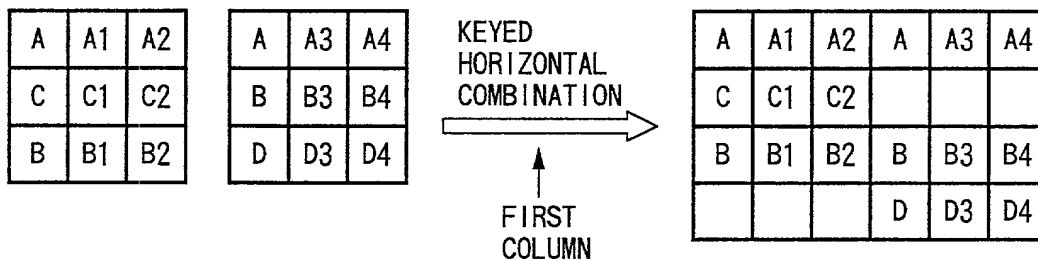


FIG.5

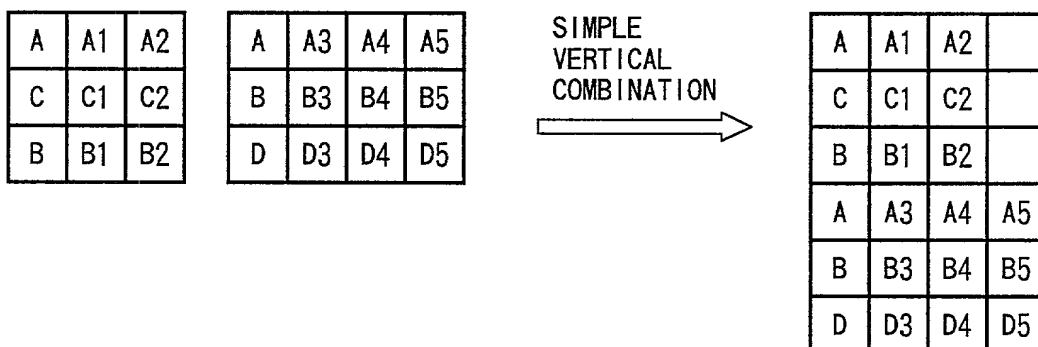


FIG.6

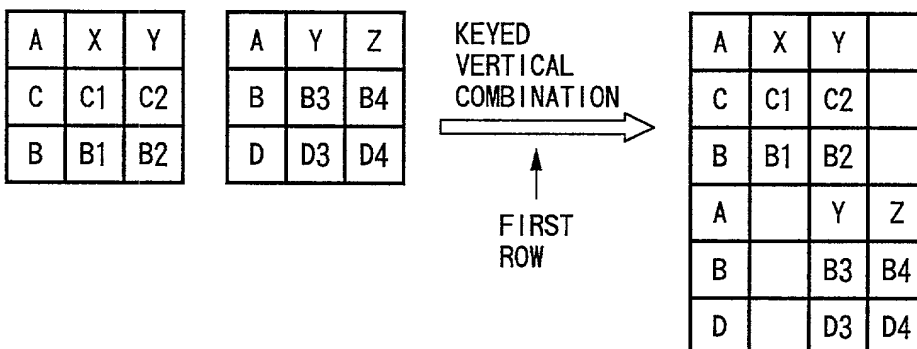


FIG.7

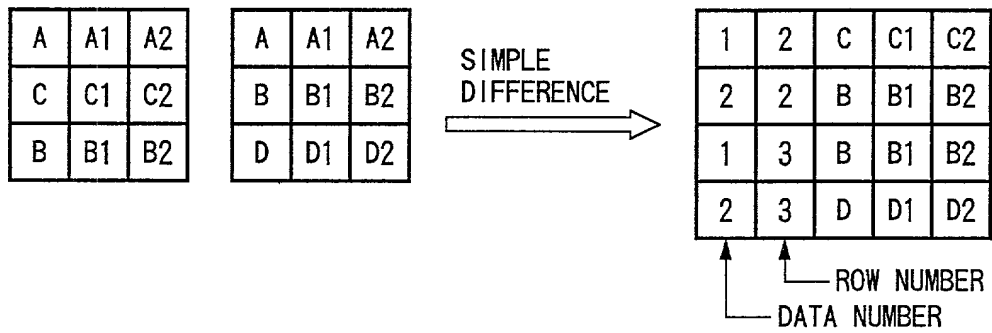


FIG.8

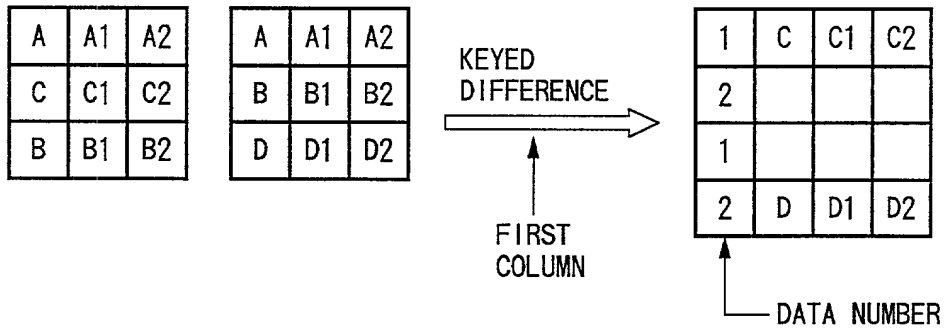


FIG.9

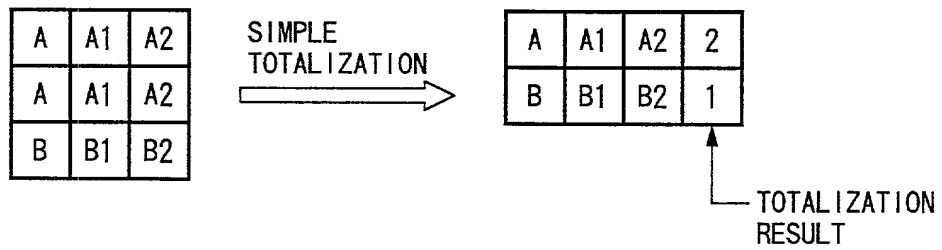


FIG.10

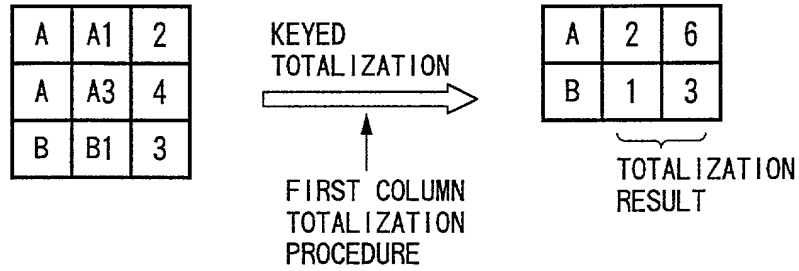


FIG.11

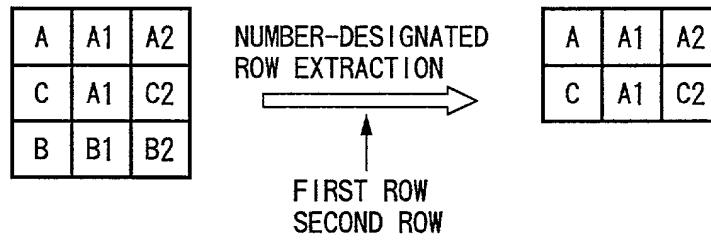


FIG.12

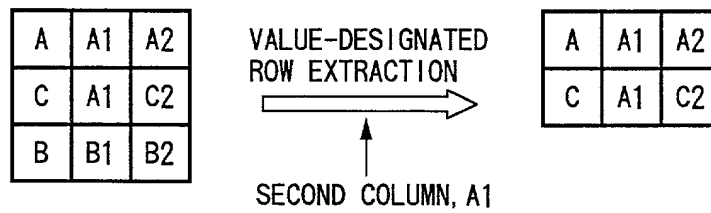


FIG.13

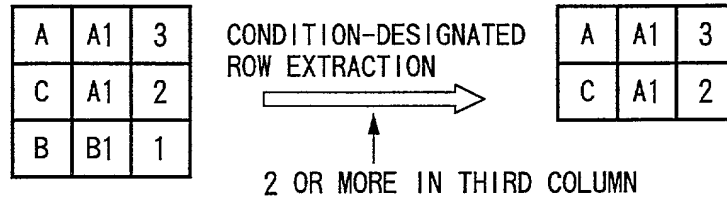


FIG.14

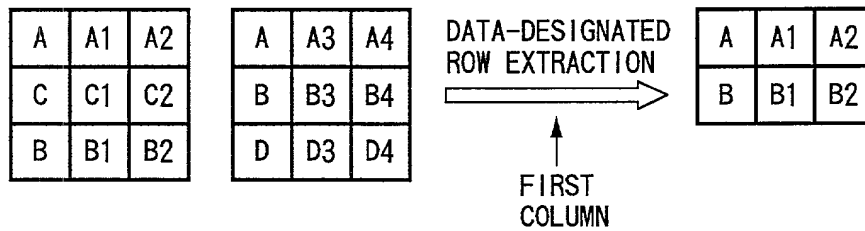


FIG.15

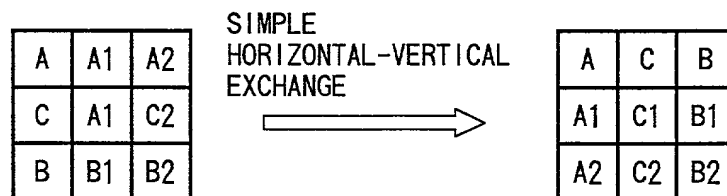


FIG.16

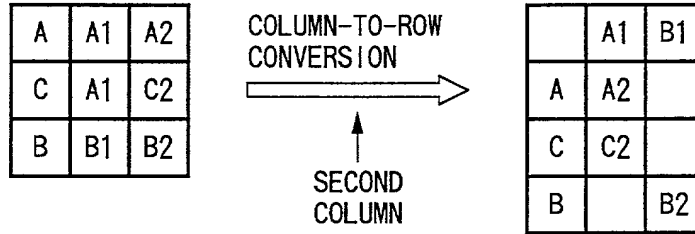


FIG.17

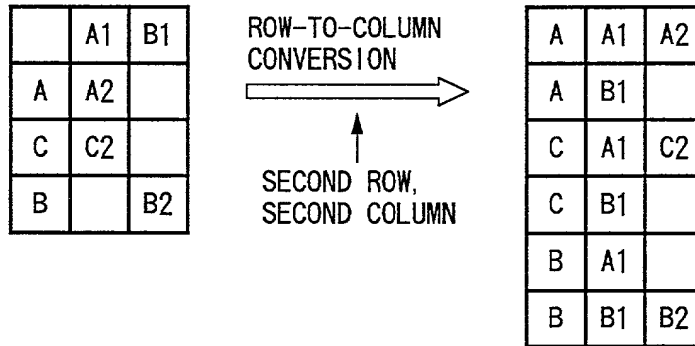


FIG.18

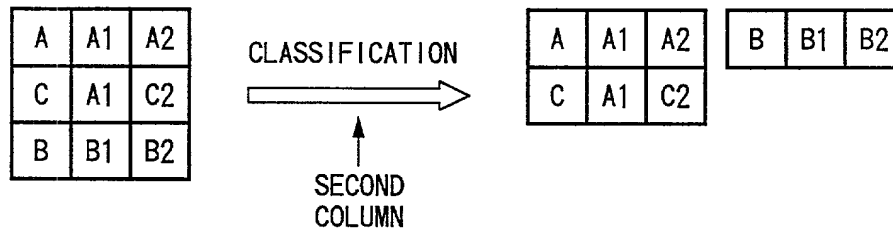


FIG.19

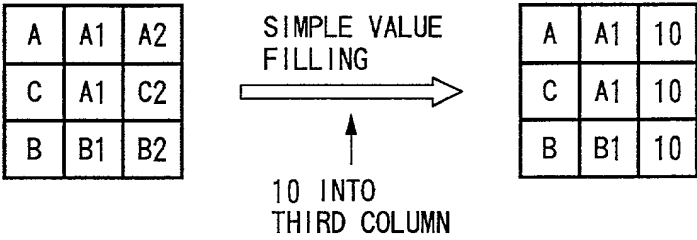


FIG.20

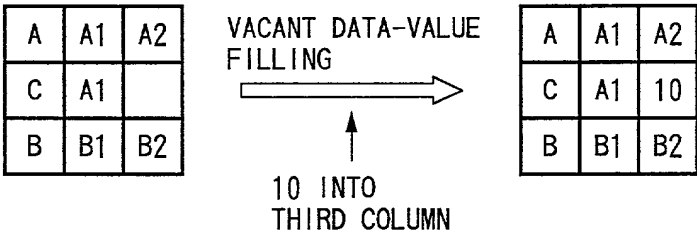


FIG.21

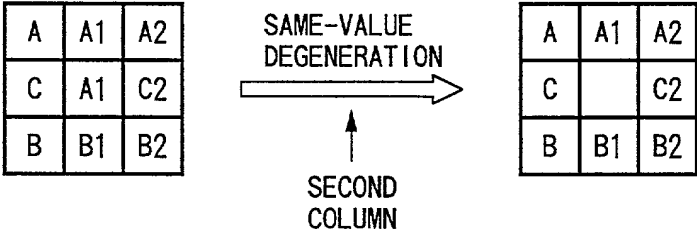




FIG.22

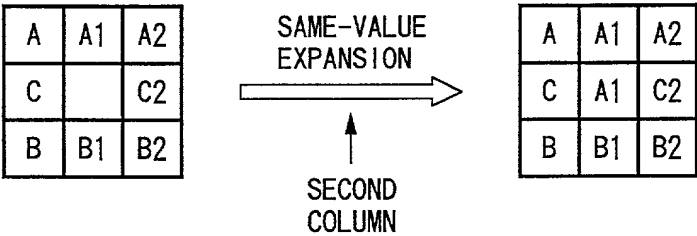


FIG.23

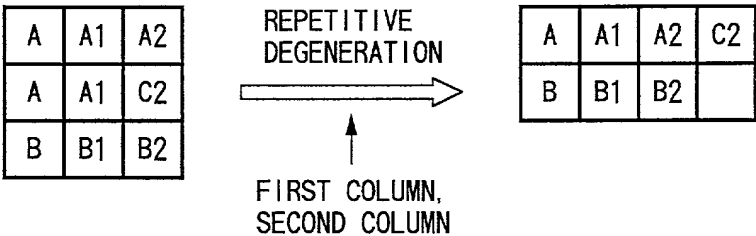


FIG.24

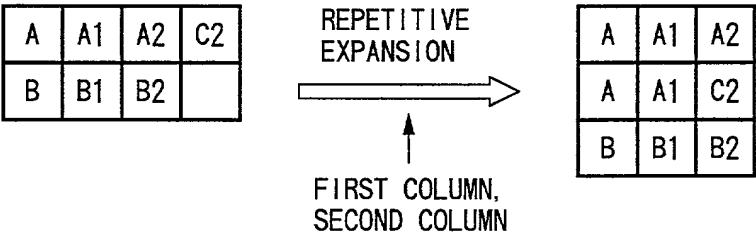




FIG.26

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DESIGNATION OF CONVERSION TARGET WORKSHEET

?

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FILE CAPTURE

MAIN INPUT

XLSheet0

▼

SUB-INPUT

XLSheet0

▼

OUTPUT

XLSheet8

Sheet1

HISTORICAL LOG

▲

▼

☐

ADD INTO WORKSHEET

OK

CANCEL

FIG.27

54

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	▲																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1				TCP/IP SUMMARY	UNIX SYSTEM CALL PROGRAMMING	S.B.O	11	11	12	10	11	3	S.B.O	12	12	S.B.O	3	1	2	11, 2	FLM	FLM	FLM	FLM	FLM	BASIS OF UNIX NETWORK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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					BASIS OF MULTITHREAD PROGRAMMING BY WIN32API	S.B.O	11	11	12	10	11	3	S.B.O	12	12	S.B.O	3	1	2	11, 2	FLM	FLM	FLM	FLM	FLM	FLM	FLM	DESIGN PRACTICE OF WAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					BASIS OF DATA STRUCTURE	S.B.O	11	11	12	10	11	3	S.B.O	12	12	S.B.O	3	1	2	11, 2	FLM	FLM	FLM	FLM	FLM	FLM	FLM	DESIGN PRACTICE OF WAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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FIG.28

56

DESIGNATION OF CONVERSION TARGET WORKSHEET

ROW-TO-COLUMN CONVERSION

MAIN INPUT XLSheet0

SUB-INPUT XLSheet0

OUTPUT XLSheet1

XLSheet0

XLSheet1

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.29

58

DESIGNATION OF CONVERTING CONDITION

ROW-TO-COLUMN CONVERSION

OK

CANCEL

\$A:\$A	
\$B:\$B	
\$C:\$C	
\$D:\$D	
\$E:\$E TCP/IP SUM	SECTION
\$F:\$F UNIX SYSTE	1ST DEV. DEP.
\$G:\$G UNIX NETWO	1ST DEV. DEP.
\$H:\$H BASIC OF P	1ST DEV. DEP.

FIG.30

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A	B	C	D	E	F	G	H	I	J	K
1	1ST DEV. DEP	GS/SURE	363220	I. AOKI TCP/IP SUMMARY	S. B.O	2	EACH PLACE			
2	1ST DEV. DEP	GS/SURE	363220	I. AOKI UNIX SYSTEM CALL PROGRAMMING	S. B.O	11	TECH			
3	1ST DEV. DEP	GS/SURE	363220	I. AOKI UNIX NETWORK PROGRAMMING	S. B.O	11	TECH		◎	
4	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF PROGRAM DEVELOPMENT ON UNIX	S. B.O	12	NUMAZU			
5	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF MULTITHREAD PROGRAMMING BY WIN32API	S. B.O	10	NUMAZU		○	
6	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF DATA STRUCTURE	S. B.O	11	TECH			
7	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF DATA STRUCTURE	S. B.O	3	NUMAZU			
8	1ST DEV. DEP	GS/SURE	363220	I. AOKI REVIEW TECHNIQUE	S. B.O	12	CORRESPONDENCE			
9	1ST DEV. DEP	GS/SURE	363220	I. AOKI QUALITY CONTROL TECHNIQUE FOR LEADERS	S. B.O	12	NUMAZU		●	
10	1ST DEV. DEP	GS/SURE	363220	I. AOKI PROJECT SIMULATION	S. B.O	2	CAMP			
11	1ST DEV. DEP	GS/SURE	363220	I. AOKI PROJECT SIMULATION	S. B.O	3	CAMP			
12	1ST DEV. DEP	GS/SURE	363220	I. AOKI DIRECTING AND EDUCATING SUBORDINATE	S. B.O					
13	1ST DEV. DEP	GS/SURE	363220	I. AOKI PROBLEM FINDING AND SOLVING SKILL	S. B.O					
14	1ST DEV. DEP	GS/SURE	363220	I. AOKI SUBJECT FINDING ABILITY IMPROVEMENT FOR IMPROVED PROFIT	S. B.O	1	TECH			
15	1ST DEV. DEP	GS/SURE	363220	I. AOKI REVIEW TEST TECHNIQUE IN PROGRAM DEVELOPMENT	FLM	2	OSAKA			
16	1ST DEV. DEP	GS/SURE	363220	I. AOKI PARTS REUSAGE TECHNIQUE IN PROGRAM DEVELOPMENT	FLM	11. 2	OSAKA			
17	1ST DEV. DEP	GS/SURE	363220	I. AOKI SOL GUIDE	FLM	EVERY MONTH	OSAKA, TOKYO			
18	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF NETWORK	FLM	EVERY MONTH	TOKYO(OSAKA)			
19	1ST DEV. DEP	GS/SURE	363220	I. AOKI DESIGN PRACTICE OF LAN	FLM	EVERY MONTH	TOKYO(OSAKA)			
20	1ST DEV. DEP	GS/SURE	363220	I. AOKI DESIGN PRACTICE OF WAN	FLM	EVERY MONTH	TOKYO(OSAKA)			
21	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF UNIX NETWORK	FLM	EVERY MONTH	TOKYO(OSAKA)			
22	1ST DEV. DEP	GS/SURE	363220	I. AOKI UNIX NETWORK PROGRAMMING	FLM	11. 2	TOKYO			
23	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF WINDOWS NT	FLM	EVERY MONTH	TOKYO(OSAKA)			
24	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF PROJECT MANAGEMENT	FLM	EVERY MONTH	TOKYO(OSAKA)			
25	1ST DEV. DEP	GS/SURE	363220	I. AOKI BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	FLM	11. 1. 3	TOKYO			
26	1ST DEV. DEP	GS/SURE	363220	I. AOKI SYSTEM QUALITY MANAGEMENT WORKSHOP	FLM	2	TOKYO			
27	1ST DEV. DEP	GS/SURE	363220	I. AOKI PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11. 2	TOKYO		◎	
28	1ST DEV. DEP	GS/SURE	363220	I. AOKI ACTION TRAINING FOR LEADERS	FLM				○	
29	1ST DEV. DEP	GS/SURE	363220	I. AOKI RISK MANAGEMENT WORKSHOP	FLM	12. 1	TOKYO			
30	1ST DEV. DEP	GS/SURE	363220	I. AOKI DEBATING TECHNIQUE	S. B.O	2	TECH			

FIG.31

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DESIGNATION OF CONVERSION TARGET WORKSHEET

VALUE-DESIGNATED ROW EXTRACTION

MAIN INPUT XLSheet1 ▼

SUB-INPUT XLSheet1 ▼

OUTPUT XLSheet2

script ▲  
FillEmptyCells ▼

☐ ADD INTO WORKSHEET

OK

CANCEL

?

×

FIG.32

64

DESIGNATION OF CONVERTING CONDITION

VALUE-DESIGNATED ROW EXTRACTION

OK

CANCEL

\$C:\$C 363220	<input type="checkbox"/>
\$D:\$D 1. AOKI	<input type="checkbox"/>
\$E:\$E TCP/IP SUM	<input type="checkbox"/>
\$F:\$F S. B. 0	<input type="checkbox"/>
\$G:\$G 2	<input type="checkbox"/>
\$H:\$H EACH PLACE	<input type="checkbox"/>
\$I:\$I	<input type="checkbox"/>
\$J:\$J	<input checked="" type="checkbox"/>



FIG.33

66

A	B	C	D	E	F	G	H	I	J	K
1	1ST DEV. DEP	GS/SURE	363220	I. AOKI	UNIX NETWORK PROGRAMMING	S.B.0	11	TECH		
2	1ST DEV. DEP	GS/SURE	363220	I. AOKI	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11.2	TOKYO		
3	1ST DEV. DEP	GS/SURE	363213	J. ADACHI	PEOPLE RELATION TRAINING LECTURE	FLM				
4	1ST DEV. DEP	GS/SURE	363213	J. ADACHI	NEGOTIATION SKILL-UP	FLM				
5	1ST DEV. DEP	GS/SURE	371704	S. ARAI	BASIS OF EVALUATION DEVELOPMENT PLAN AND MANAGEMENT FOR LEADERS	FLM	11.1.3	TOKYO		
6	1ST DEV. DEP	GS/SURE	392272	S. IKEDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11.2	TOKYO		
7	1ST DEV. DEP	GS/SURE	392282	G. ISHII	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11.2	TOKYO		
8	1ST DEV. DEP	GS/SURE	392076	R. INOUE	JAVA PROGRAMMING GUIDE	FLM				
9	1ST DEV. DEP	GS/SURE	392076	R. INOUE	JAVA APPLET GUIDE (VOD)	S.B.0				
10	1ST DEV. DEP	GS/SURE	402634	S. IWAKI	SOFTWARE DEVELOPMENT AND PATENT	S.B.0		1	TECH	
11	1ST DEV. DEP	GS/SURE	363248	H. UEDA	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S.B.0		12	NUMAZU	
12	1ST DEV. DEP	GS/SURE	363248	H. UEDA	PSYCHOLOGY AND ORGANIZATION THEORY FOR LEADERS	FLM	11.2	TOKYO		
13	1ST DEV. DEP	GS/SURE	371724	K. ENDO	PROBLEM FINDING AND SOLVING ABILITY	S.B.0				
14	1ST DEV. DEP	GS/SURE	414406	J. OMORI	C++GUIDE	H.R		12	EDUCATION CENTER(GC)	
15	1ST DEV. DEP	GS/SURE	414406	J. OMORI	CORBA					
16	1ST DEV. DEP	GS/SURE	425929	J. OCHI	POINT OF SOFTWARE-RELATED PAT. APPLN.	S.B.0				
17	1ST DEV. DEP	GS/SURE	425929	J. OCHI	BASIS OF PAT. APPLN.	S.B.0				
18	1ST DEV. DEP	GS/SURE	402646	J. OHARA	VISUAL BASIC GUIDE	S.B.0		3	NUMAZU	
19	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	BASIS OF SOFTWARE DEVELOPMENT ON UNIX	S.B.0		12	NUMAZU	
20	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	BASIS OF UNIX NETWORK	FLM	EVERY MONTH	TOKYO (OSAKA)		
21	1ST DEV. DEP	GS/SURE	480159	J. KAWAMOTO	HOW TO MAKE SHELL SCRIPT (FOR BEGINNER)	S.B.0		2	CORRESPONDENCE	
22										
23										
24										
25										
26										
27										
28										
29										
30										

FIG.34

68

DESIGNATION OF CONVERSION TARGET WORKSHEET

KEYED TOTALIZATION

MAIN INPUT XLSheet2 ▼

SUB-INPUT XLSheet2 ▼

OUTPUT XLSheet3

script  
FillEmptyCells ▲▼

☐ ADD INTO WORKSHEET

OK

CANCEL

FIG.35

70

DESIGNATION OF CONVERTING CONDITION

KEYED TOTALIZATION

OK

CANCEL

\$A:\$A	1ST DEV. DE	▲
\$B:\$B	GS/SUF	▲
\$C:\$C	363220	▲
\$D:\$D	I. AOKI	▲
\$E:\$E	UNIX NETWO	▲
\$F:\$F	S. B. 0	▲
\$G:\$G	11	▲
\$H:\$H	TECH	▲

72

[illegible]



FIG.38

76

DESIGNATION OF CONVERSION TARGET WORKSHEET

EXECUTION

MAIN INPUT script

SUB-INPUT XLSheet

OUTPUT XLSheet4

script  
FillEmptyCells

☐ ADD INTO WORKSHEET

OK

CANCEL

74

[illegible]

87

<b>FILE OPEN</b>			
RETRIEVE(I) :		sample	
NAME	SIZE	TYPE	MODIFIED
MINAGAWA. xls	18KB	Microsoft Exce...	00/03/07 23:02
SATO. xls	17KB	Microsoft Exce...	00/03/07 23:01
sample. xls	26KB	Microsoft Exce...	00/08/07 13:18
FIND FILES THAT MATCH THESE SEARCH CONDITION			
FILE NAME(N) :	<input type="text"/>	TEXT OR PROPERTY(X) :	<input type="text"/>
FILE OF TYPE(T) :	<input type="text"/> ALL FILES (*.*)	LAST MODIFIED(M) :	<input type="text"/> ANY TIME
3 FILE(s) FOUND			

**FIG. 41**

[illegible]



FIG. 42

[illegible]

FIG.43

80

	A	B	C	D	E	F	G	H	I	
1	C++GUIDE	1								
2	JAVA BEENS COMPONENT DEVELOPMENT	1								
3	WINDOWS APPLICATION DEVELOPMENT BY MFO	1								
4	TCP/IP SUMMARY	2								
5	STATE TRANSITION DIAGRAM AND LANGUAGE THEORY	1								
6	MIDDLE CLASS JAVA PROGRAMMING (LOD)	1								
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
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18										
19										
20										
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22										
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24										
25										
26										
27										
28										
XLSheet3										

**FIG. 44**

[illegible]